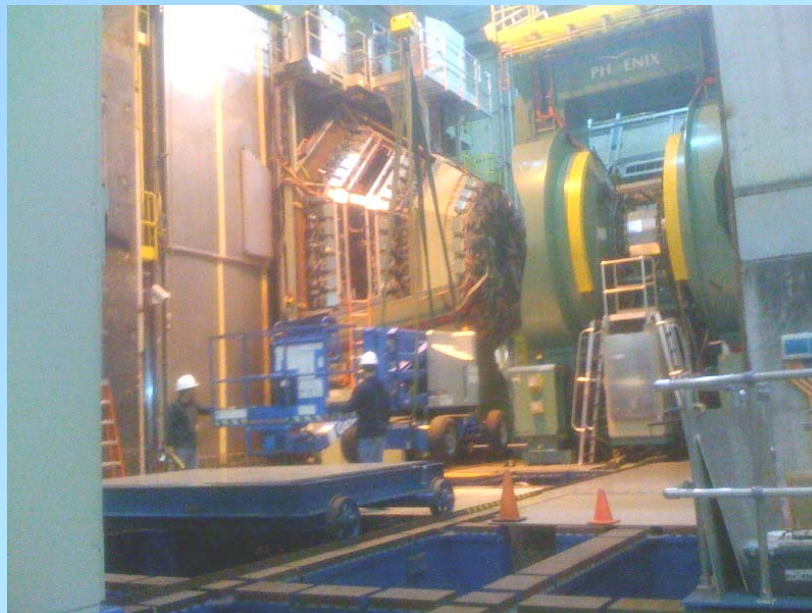


PHENIX WEEKLY PLANNING



11/5/2009
Don Lynch

Completed Tasks

Task

Start of shutdown tasks
Erected scaffolds in stations 1, 2 and 3 of MMS
Tools for RPC Factory: tilt table and burn in test stand
Designed and fabricated RPC installation components, fixtures
Procedures and work permits
Designed, fabricated and assembled PC1 repair fixture
Installed station 1 MuTrigger FEE upgrades
Repaired faulty DC FEMs
Removed HBD East for repairs & Reinstalled
Massive prep for installation of RPC3 North
Replaced failed PC1 module and associated PC1 repairs
Installed RPC3 North east & west bases
DC East Repairs
Installed 1W-8W, 1E-4E & 8E $\frac{1}{2}$ octants & tested in place,
1W-8W survey is done
RPC3N racks (2) in tunnel west trough
HBD re-cabled and aligned
MuID steel top RPC3 N support brackets installed
RPC pitch control rails installed
MuTrigger FEE radiation monitor slide installed
RPC prototype absorber de-installed and stowed

RPC3 North remaining Tasks

- Stencil/permanent mark RPC3 lifting fixtures
- Install and test 3 more $\frac{1}{2}$ octants
- Final survey (West side is done)
- Install gas system and distribution
- Restore gap 5 piping and wiring
- Install 2 Racks in west trough
- Install rack components and wire up $\frac{1}{2}$ - octants
- Install new vapor barrier
- Install heaters and thermostats
- Re-Install shielding
- Final wiring and commissioning

TECHNICAL SUPPORT NOON

This Week 11/2-11/6

Task

Start Date

End Date

TECHNICAL SUPPORT NOON

Analyze and test EC dumbwaiter

Done

Done

Install new gap5 N cable & pipe supports, cables and piping and leak test piping

In progress

11/13

MuTr HV and FEE test and evaluation as MuTrigger FEE's & RPC's are installed

In progress

11/30

RPC3 North Installation of remaining 3 $\frac{1}{2}$ -Octants

In Progress

11/10

Close MMN Hatch and closeout WP

11/20

11/20

Install 2 RPC3 N racks

Done

Done

Install rack components in RPC3 N racks

10/1

11/13

Attach cables to RPC3 N racks and to Detector $\frac{1}{2}$ octants

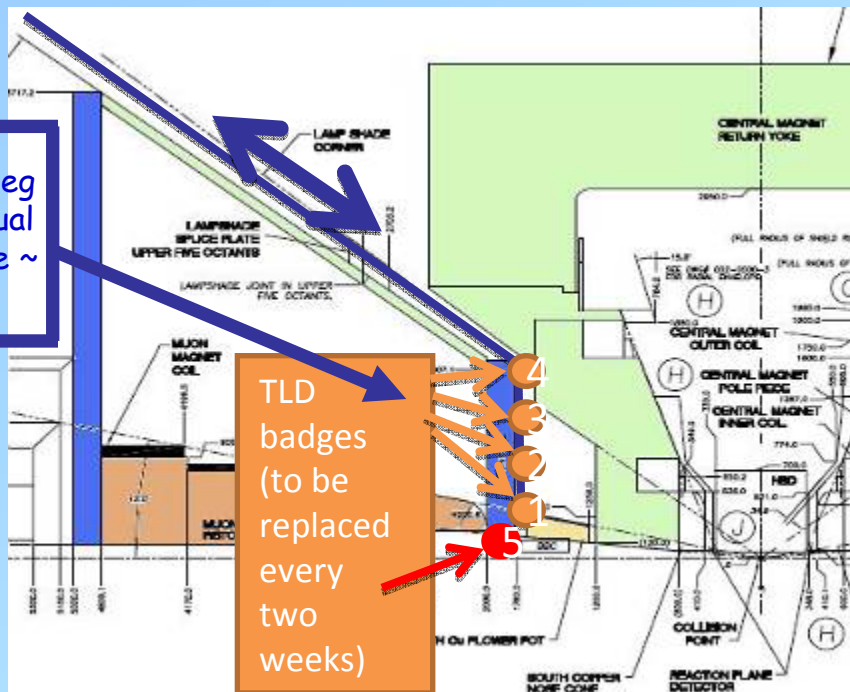
10/1

11/13



Can we keep these?

Rotated up 90 deg
For clarity. Actual
installation to be ~
horizontal



Slide to insert/retract TLD's bi-weekly during run



About 3/8" high.



9

Alignment corrected



West Side Survey

11/5/2009

HO 1&2 E in without problem
HO3E in, leak detected, extracted, repaired
And re-installed, schedule not impacted



HO4E Installation



11/5/2009

TE



HO 4E installed



HO8E Installed

11/5/2009



Racks for RPC3N
Installed



Lampshade Installation underway

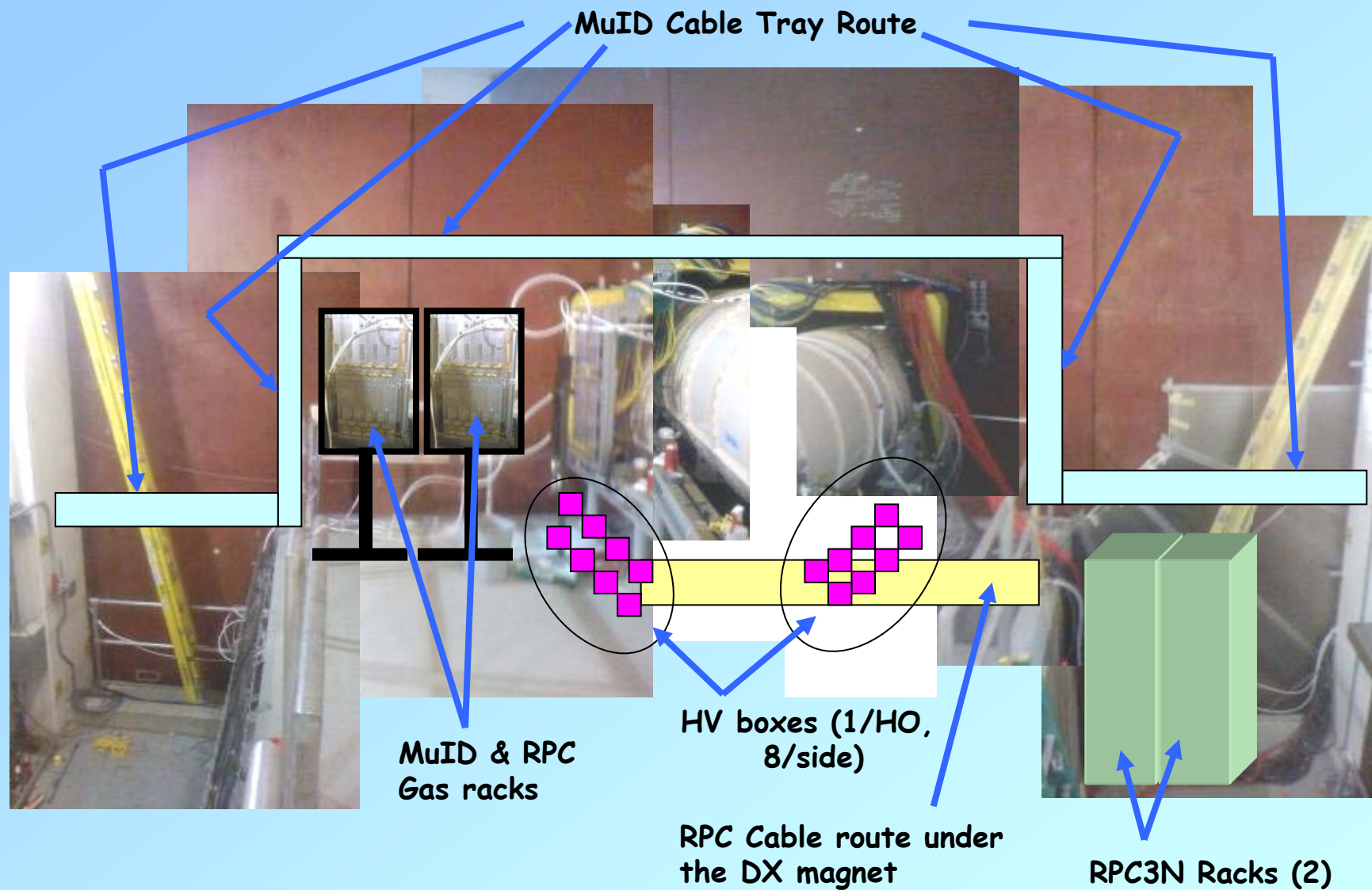
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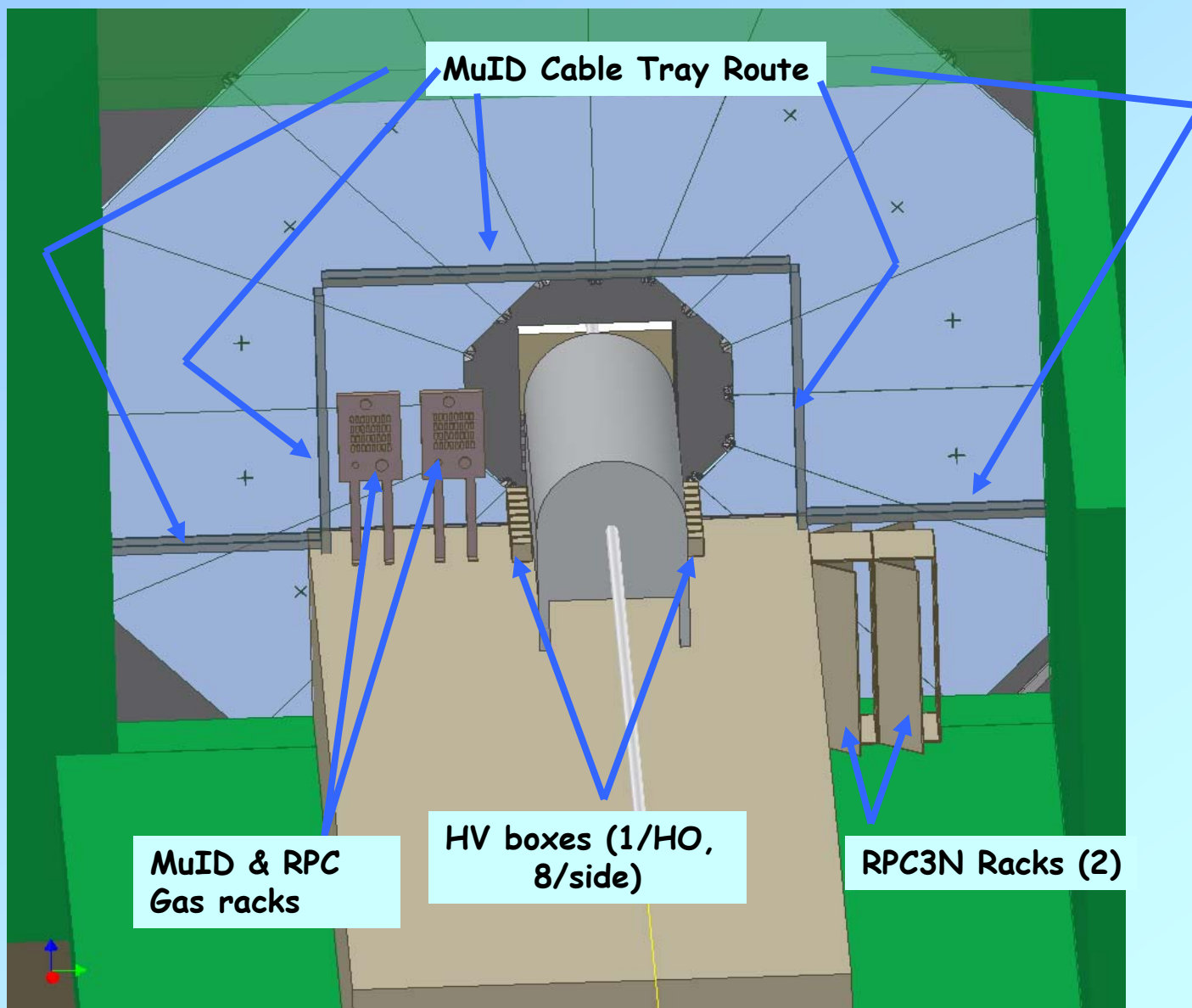


RPC3 N racks in the trough
Waiting for cable trays



Cable Trays for RPC3N
Underway







11/5/2009



Today in the tunnel

Today in the IR



Continuing Tasks currently underway (elec.)

Task	Start Date	End Date
Install LV Dist modules in MuTrigger S.	On Hold	On Hold
Remove temporary MegaPAC in sRPC1 rack and install new full MegaPAC and finish controls for it	7/20	12/1
VTX/FVTX LV Dist system evaluation (VTX Done)	In Progress	12/1
Prep for production of up to 39 boards in 4 crates (VTX/FVTX)	In Progress	12/1
VTX/FVTX cooling system interlock design	Awaiting more info	TBD
Evaluate possible design for 6x1 GL1 L1 triggers	Design In Progress	12/1
Rack room re-organization	On Hold	On Hold
AH Crane 110 switch for lockout	In Progress	12/1
Test/replace rack transient suppression	7/20	12/1
Cordless phones in tunnel	7/20	12/1
Individual relays on all HV supplies	7/20	12/1
Replacement OPC server computers	Done	Done
Replace old PCI type RS485 interface boards with USB-Fiber and Fiber-RS485 system	Done	Done
Replace ECB1&2 (ADAM5000s) with a single new ADAM5000E	Done	Done

More Continuing Tasks currently underway (elec., cont'd.)

TECHNICAL SUPPORT NOON

Task	Start Date	End Date
Add BNL Fire Alarm Zone status lights in the PCR including alarms.	In Progress	12/1
Move LCVS Fan and LCVS backup Fan control switches from the Bypass Box to rack PCR2	In Progress	12/1
Re-organize/re-wire panel front on rack PCR2 to accommodate the above and allow for ease of use and readability by staff	In Progress	12/1
Remove existing SMCS trip channel LED boxes and Reset switch/indicator panel from rack PCR2	In Progress	12/1
Add new alarms into Ronan annunciator System and re-configure as necessary.	In Progress	12/1
Install new camera electronics into rack PCR5	In Progress	12/1

More Continuing Tasks currently underway (mechanical)

TECHNICAL SUPPORT NOON

Task

Start Date End Date

Design supports for Beampipe upgrade

In Progress

11/30

Fan Tray replacements (as time permits)

In Progress

11/30

Design support for FOCaI

In Progress

11/30

Design support for FVTX

In Progress

11/30

Design & Fabrication support for VTX

In Progress

11/30

Continuing Tasks currently underway (gas)

Task

Start Date End Date

Get AC's installed in mixing house

Investigate shed/larger bottles for R134A

Replace damaged compressed air flowmeter

Add check valves to some supply lines (as needed)

Design and build heat exchanger for HBD system

Replace/ regenerate HBD purifier and driers (late Fall)

Send mass flowmeters out for recalibration (DC/PC, MuID, TOF.W)

Replace/upgrade gas house PC's

Run gas lines to North tunnel

Design and build gas humidifier

Layout and build North distribution panel



In Progress

12/1

7/20

12/1

7/20

12/1

7/20

12/1

In Progress

12/1

In Progress

10/9

In Progress

12/1

In Progress

12/1

7/20

12/1

In Progress

12/1

In Progress

12/1

November Schedule

Task

Start Date End Date

T
H
U
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L

- Install heaters and thermostat(s) for RPC3N thermal control 11/2 11/6
- Reinstall PHENIX North tunnel shielding (3 days) 11/2 11/6
- Replace EC water hoses below EC and test 11/2 11/6
- Cooldown for Run 10 Starts 11/6 11/6
- Move MuID Collars to IR 11/6 11/6
- Disconnect electric & Fiber in EC 11/2 11/6
- Remove ladder & dumb waiter from EC & Fold up EC platforms in AH (1 day) 11/9 11/10
- Veterans Day Holiday - no work 11/11 11/11
- Remove IR Floor plates and move 12 ton cart to AH 11/12 11/12
- Move EC to IR 11/12 11/13
- Reconnect electric and fiber to EC 11/16 11/20
- **DC East and West repairs** 11/16 11/25
- Reinstall ladder & dumb waiter on EC & Fold down EC platforms in IR 11/16 11/20
- Pink sheets, white sheets, blue sheets 11/16 12/1
- Move MMS north, Install MuID Collars 11/23 11/25
- Assemble shield wall base and wall in AH 11/23 11/30
- Thanksgiving Holiday - no work 11/26 11/27
- Roll in shield wall 11/30 11/30
- Start Run 10, All shutdown activities completed 12/1 12/1



Expected IR Configuration For Remainder of Shutdown '09

Now-11/10 MMS south, CM in run position, EC in AH
WC in west position (against wall), scaffolding
in station 1 and station 2/3 south

11/10-11/13 MMS south, CM in run position, WC position
TBD, EC in transit to IR

11/13-12/1 MMS & CM in run position, EC and WC can be
moved east west ~3 ft

These dates are approximate and subject to change

CM will not be moved for remainder of shutdown... no
access to station 1 north

2009 Building Maintenance Issues

- Roof leaks in utility bathroom at northwest corner behind tech offices and over door between rack room and assembly hall
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- Improved Rack Room AC performance: New AC on order
- General maintenance for Trailer Offices and Gas Mixing House stairs, ramps and siding, gutters, etc. (cleaning and repairing worn/rotted wood): Carter has placed work orders
- Icy conditions at mixing house north stairs: Need new Mixing House Gutter
- Purchase and install 2 AC's in Phenix Gas Mixing House
Suggested model : McMaster part number: 1817K89 (19.5 K btu)



1. Laptop fire at CAD - Dead batteries can short and overheat.
2. Contractor Stand Down - Update?
3. ODH0 in tunnel started this week
4. Annual PHENIX safety Review: to be held Tomorrow, 2:00 PM

Don, Paul and Rob to prepare presentations for mechanical, electrical, gas system and safety systems.

(Note: does not include RPC factory. RPC factory annual review is due in Jan.)

5. PHENIX Procedure Review Current Status:

147 Procedures Identified

77 Made Inactive (not currently in use, will require revision to re-activate if and when necessary, available for reference purposes)

12 CAD procedures relevant to PHENIX, all are current and up-to- date

42 PHENIX approved procedures.
 26 are currently under review
 16 are current and up-to-date

16 Proposed/Draft Procedures (never previously formalized)

Where To Find PHENIX Engineering Info



It's been a scary shutdown

But the end is in sight

Soon it will be time to plan

For next summer's horror show

Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

